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*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L3

L2 with l1

16

L3L2

continuous or flow

3187372

L2L1

electroporation chamber

102

L1

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L3: Entry 15 of 16

File: DWPI

Aug 14, 1997

DERWENT-ACC-NO: 1994-316536

DERWENT-WEEK: 199741

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TITLE: Appts. for electroplating cells partic. red blood cells - by sepg. them from blood flow, suspending them and adding a biologically active substance partic. inositol hexa:phosphite to provide modified cells

INVENTOR: BRUGGEMANN, U; MOUNEIMNE, Y ; NICOLAU, Y C ; ROUX, E C

PRIORITY-DATA: 1993US-0035467 (March 23, 1993), 1995US-0525719 (December 18, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 680890 B	August 14, 1997		000	A01N001/02
WO 9421117 A1	September 29, 1994		064	A01N001/02
AU 9464150 A	October 11, 1994		000	A01N001/02
EP 690671 A1	January 10, 1996	E	000	A01N001/02
JP 08511680 W	December 10, 1996		060	C12M001/00
US 5612207 A	March 18, 1997		023	C12M001/42

INT-CL (IPC): A01 N 1/02; A01 N 63/00; A61 K 31/66; A61 K 35/18; A61 K 37/02; A61 M 1/36; B01 D 61/42; C12 M 1/00; C12 M 1/02; C12 M 1/12; C12 M 1/36; C12 M 1/42; C12 N 5/06; C12 N 5/16; C12 N 13/00

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L3: Entry 16 of 16

File: DWPI

Feb 7, 1991

DERWENT-ACC-NO: 1991-045105

DERWENT-WEEK: 199107

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TITLE: Loading red blood cells with active agent - by electro-poration, incubation with active agent, resealing and rejuvenating

INVENTOR: SCHUTT, K H; WESER, C ; SCHUETT, K

PRIORITY-DATA: 1989DE-3925680 (August 3, 1989), 1990EP-0116742 (August 31, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 3925680 A	February 7, 1991		000	
DE 3925680 C2	September 9, 1993		022	A61K035/18
EP 472772 A	March 4, 1992		000	

INT-CL (IPC): A61K 9/50; A61K 31/60; A61K 31/70; A61K 35/18; A61K 37/02

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L3: Entry 15 of 16

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L3: Entry 4 of 16

File: USPT

US-PAT-NO: 6090617

DOCUMENT-IDENTIFIER: US 6090617 A

TITLE: Flow electroporation chamber with electrodes having a crystalline metal nitride coating

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meserol; Peter	Montville	NJ		

US-CL-CURRENT: 435/285.2; 422/44, 435/173.6

CLAIMS:

What is claimed is:

1. A flow electroporation chamber for electrical stimulation of particles in a saline solution, comprising:

a housing having an inlet, an outlet, and internal walls defining a particle electrical stimulation chamber; said chamber being configured to receive a continuous flow of particles from the inlet; and

a pair of electrodes disposed along opposing walls of said chamber, said electrodes comprising means for placing said electrodes in electrical communication with a source of electrical energy, whereby flowing particles in said chamber are subjected to an electrical field therebetween;

said electrodes each further comprising an external surface wherein at least a portion of the external surface of one of said electrodes corresponding to the emission of the electrical field has a continuous crystalline metal nitride coating.

2. The apparatus of claim 1, wherein the source of electrical energy is adapted to supply pulsed electrical energy.

3. The apparatus of claim 1, wherein at least a portion the surface of both electrodes corresponding to the electrical field has a continuous crystalline metal nitride coating.

4. The apparatus of claim 1, wherein the continuous crystalline metal nitride coating is selected from the group consisting of titanium nitride, titanium aluminum nitride, chromium nitride, and zirconium nitride.

5. The chamber of claim 1, wherein the continuous crystalline metal coating is titanium nitride.

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L3: Entry 4 of 16

File: USPT

Jul 18, 2000

US-PAT-NO: 6090617

DOCUMENT-IDENTIFIER: US 6090617 A

TITLE: Flow electroporation chamber with electrodes having a crystalline metal nitride coating

DATE-ISSUED: July 18, 2000

US-CL-CURRENT: 435/285.2; 422/44, 435/173.6APPL-NO: 08/ 760515 [PALM]

DATE FILED: December 5, 1996